SCORE Search Results Details for Application 10573229 and Search Result 20090528 121050 us-10-573-229a-1.rng.

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This page gives you Search Results detail for the Application 10573229 and Search Result 20090528 121050 us-10-573-229a-1.rng.

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GenCore version 6.3

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OM nucleic - nucleic search, using sw model

Run on:

May 31, 2009, 21:45:58; Search time 320 Seconds

(without alignments)

47647.773 Million cell updates/sec

Title:

US-10-573-229A-1

Perfect score: 920

Sequence:

1 tctgtagaggggaatggctg.....acccccaaagaaaccttcta 920

Scoring table:

IDENTITY NUC Gapop 10.0 , Gapext 1.0

Searched:

14112681 segs, 8286569208 residues

Total number of hits satisfying chosen parameters: 28225362

Minimum DB seg length: 0

Maximum DB seg length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N_Geneseq_200812:*

1: genesegn1:* 2: genesegn2:*

3: genesegn3:*

genesegn4:* 4:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed. and is derived by analysis of the total score distribution.

SUMMARIES

						SUMMARIES	
			%				
Result			Query				
No.		Score	Match	Length	DB	ID	Description
	1	920	100.0	920	2	ADZ14485	Adz14485 DNA encod
	2	920	100.0	920	3	AEL40763	Ae140763 Human tum
C	3	178.2	19.4	390	2	ADZ14751	Adz14751 ORF DNA e
C	4	176.6	19.2	390	3	AEL41029	Ael41029 Human tum
	5	122.6	13.3	561	1	ADY36463	Ady36463 HIRA geno
	6	122.6	13.3	561	1	ADS31075	Ads31075 Human gen
	7	121.2	13.2	541	1	ADY36462	Ady36462 HIRA geno
	8	121.2	13.2	541	1	ADS31074	Ads31074 Human gen
	9	104.8	11.4	737	1	ADC20771	Adc20771 Human sec
	10	104.8	11.4	737	1	ADA44374	Ada44374 Human sec
	11	104.8	11.4	737	1	ADF10918	Adf10918 Human sec
	12	104.8	11.4	737	1	ADA98650	Ada98650 Human sec
	13	104.8	11.4	737	3	AOD72587	Aod72587 Human sec
	14	104.8	11.4	797	1	AAC79717	Aac79717 Human sec
	15	104.8	11.4	797	1	ADC20168	Adc20168 Human sec
	16	104.8	11.4	797	1	ADA43908	Ada43908 Human sec
	17	104.8	11.4	797	1	ADF10604	Adf10604 Human sec
	18	104.8	11.4	797	1	ADA98008	Ada98008 Human sec
	19	104.8	11.4	797	3	AOD66200	Aod66200 Human sec
	20	104.8	11.4	797	4	ATC73738	Atc73738 Human sec
С	21	104.8		137000	2	ADH77370	Adh77370 Human PTP
c	22	104.8		137000	3	AEE96219	Aee96219 Human PTP
	23	104.0	11.3	744	2	AGE46923	Age46923 Human sin
С	24	101.8		138244	2	AEX41464	Aex41464 Human rhe
c	25	101.2	11.0	6000	4	ATN10540	Atn10540 Human tra
c	26	98.4	10.7	84105	2	AFS52981	Afs52981 Human pol
c	27	98	10.7	55927	2	AFI73361	Afi73361 Human gen
c	28	97.8	10.6	9245	2	AFI73301 AFI71693	Afi71693 Human gen
c	29	97.8	10.6	9245	2	AFI71694	Afi71694 Human gen
C	30	97.4	10.6	10252	1	AAS31966	Aas31966 Human liv
	31	97.4	10.6	10252	1	AAK90931	Aak90931 Human dig
	32	97.4			1		Abn90321 Human liv
			10.6	10252	1	ABN90321	
	33	97.4	10.6	10252	_	ADJ15234	Adj15234 Human liv
С	34	97.4		142439	4	ATR89011	Atr89011 Human can
	35	95.4	10.4	3361	2	ADQ64498	Adq64498 Novel hum
С	36	93.6		153170	2	ADQ17382	Adq17382 Human sof
С	37	92.2		101099	3	AEG93597	Aeg93597 Human tum
С	38	91.8		143550	2	AFI72487	Afi72487 Human gen
	39	91.4	9.9	1399	4	ARY86811	Ary86811 Psoriasis
	40	91.4	9.9	1410	4	ARY86813	Ary86813 Psoriasis
	41	91.4	9.9	1458	4	ARY86809	Ary86809 Psoriasis
	42	91.4		173805	1	ADL13775	Adl13775 Osteoarth
	43	91.4	9.9	215308	3	ASQ09904	Asq09904 Human CTD

ADZ14485 standard; DNA; 920 BP.

RESULT 1 ADZ14485 ID ADZ

XX

CC

CC

44 90.8 9.9 76118 2 AFI73937 Afi73937 Human gen 45 90.8 9.9 92117 1 ACN44746 Acn44746 Human gen

ALIGNMENTS

```
AC
    ADZ14485:
XX
    11-JUN-2007 (revised)
DT
    16-JUN-2005 (first entry)
DT
XX
DE
    DNA encoding a human tumor associated antigen Seg 1.
XX
    chromosome 6; tumor-associated antigen; antisense therapy;
KW
    RNA interference; diagnosis; cytostatic; cancer; metastasis; gene; ds.
KW
XX
OS
    Homo sapiens.
XX
PN
    WO2005030250-A2.
XX
PD
    07-APR-2005.
XX
PF
    23-SEP-2004: 2004WO-EP010697.
XX
    26-SEP-2003; 2003DE-01044799.
PR
XX
PA
    (GANY-) GANYMED PHARM AG.
XX
PΙ
    Tuereci O. Sahin U. Helftenbein G. Schlueter V:
XX
    WPI; 2005-285105/29.
DR
    P-PSDB; ADZ14486.
DR
DR
    PC:NCBI; qi22697845.
XX
PT
    Compositions for treating and diagnosing cancer, contain agents that
PT
    inhibit activity or expression of specific tumor-associated antigens, or
    bind to these antigens or nucleic acid encoding them.
PT
XX
PS
    Claim 1; SEQ ID NO 1; 388pp; German.
XX
```

This invention relates to a novel pharmaceutical composition which comprises an agent that inhibits the activity or expression of a specific tumor-associated antiqen (TAq). Specifically, it relates to tumor-

associated antigens that are encoded by one of the following 75 nucleic

CC

CC

CC CC

ac ac

CC

CC

CC

CC

CC CC

CC

XX SO

Ouerv Match

acids sequences, fragments or derivatives thereof as given in the specification. The present invention describes antisense nucleic acids that hybridize to these TAg polynucleotides that may be used for antisense therapy and RNA interference, as well as methods for diagnosing a disease associated with (abnormal) expression of TAg. Accordingly, it further relates to methods for determining regression, progression and onset of a disease by administering an antibody, optionally linked to a therapeutic or diagnostic agent, that binds to TAg. As such, cytostatic compositions derived thereof are used for treating a wide range of cancers and their metastases, where the agents that bind specifically to TAg, and the nucleic acids that encode them, are useful for diagnosis and monitoring. This polynucleotide is a human DNA sequence encoding a tumor associated antigenic protein of the invention.

100.0%; Score 920; DB 2; Length 920;

Revised record issued on 11-JUN-2007: Enhanced with precomputed information from BOND.

Sequence 920 BP; 238 A; 255 C; 255 G; 172 T; 0 U; 0 Other;

```
Best Local Similarity 100.0%; Pred. No. 2.3e-273;
 Matches 920; Conservative
                    0; Mismatches
                               0; Indels
                                               0;
                                          Gaps
       1 TCTGTAGAGGGGAATGGCTGTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTG 60
Qy
        Db
       1 TCTGTAGAGGGGAATGCTGTGTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTG 60
Qv
      61 CACTTGGTGAGAAACCGATGCCTCTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGAC 120
        Dh
      61 CACTTGGTGAGAAACCGATGCCTCTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGAC 120
      Qу
        Db
      181 AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT 240
Qу
        Db
      181 AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT 240
      241 GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGACCTCCATCAGGTGTCGACAAGGAA 300
Qv
        241 GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGACCTCCATCAGGTGTCGACAAGGAA 300
Dh
      301 GATCCCAGTAGGGCAGGAGACAGGAGCACCTCTGCTGTGGCCAATGCAGGAATGCTGGCC 360
Qv
        Db
      301 GATCCCAGTAGGGCAGGAGACAGGAGCACCTCTGCTGTGGCCAATGCAGGAATGCTGGCC 360
      361 ATCATTGCTTCTGCTGGGCGACTGAGAAGCATCACCCACTTCCCCAGAACCTTTTTTACG 420
0v
```

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528 121050 us-10-573-229a-1.rng.
Db
      361 ATCATTGCTTCTGCTGGGCGACTGAGAAGCATCACCCACTTCCCCAGAACCTTTTTTACG 420
0v
      421 TGGAGTGAAAACTTTAAGGGGCTGTCCAGCTAAACCTCCAGATCCCATGCCAA 480
         421 TGGAGTGAAAACTTTAAGGGGCTGTCCAGCTAAACCTCCAGATCCCAGATCCCATGCCAA 480
Db
      481 TTTCTCTGCTTCTGCAAAAGGACTTCAAGTGAAAGACATCTGCAGCTGTGAACGGGGGTA 540
Qy
         Dh
      481 TTTCTCTGCTTCTGCAAAAGGACTTCAAGTGAAAGACATCTGCAGCTGTGAACGGGGGTA 540
      541 AAACCCTCCCTGCCCCAGGCCCCAAGCAAGGATTTCCCTAGCGGGGAAGGTAGAATC 600
Qv
         Db
      541 AAACCCTCCCTGCCCCAGGCCCCAAGCAAGGATTTCCCTAGCGGGGAGGAAGGTAGAATC 600
      601 GAGAGACCTCTAACCCTGGGAGAGGGGGGGGGGGAAATCTCCGAGGACCAGGGTTATGCAA 660
0v
         601 GAGAGACCTCTAACCCTGGGAGAGGAGGGAGGGAAATCTCCGAGGACCAGGGTTATGCAA 660
Db
      Οv
         Db
      721 CAAGAGCCAGCCCGAACCCAAGGCACAGCTTATACTGGCCCCGGGGCCTGGGGGGGCAC 780
Qv
         Db
      721 CAAGAGCCAGCCCGAACCCAAGGCACAGCTTATACTGGCCCCGGGGCCTGGGGGGGCAC 780
Qv
      781 GAAAACCTTGAAAAAGGGGCCCTTCCCAGCTTCCCCGGGGGTAAGGGCTTTACCCCCCA 840
         Db
      781 GAAAACCTTGAAAAAGGGGCGCCTTCCCAGCTTCCCCGGGGGTAAGGGCTTTACCCCCCA 840
      841 GAGGGGGGGGAAAAATCCGAGTGGGATCTTTCCCAACCGCCGAAGACTAAAACCTTTAA 900
Qу
         841 GAGGGGGGGGAAAAATCCGAGTGGGATCTTTCCCAACCGCCGAAGACTAAAACCTTTAA 900
Db
      901 ACCCCCAAAGAAACCTTCTA 920
Qу
         901 ACCCCCAAAGAACCTTCTA 920
Db
```

RESULT 2

AEL40763

```
TD
     AEL40763 standard; DNA; 920 BP.
XX
```

AC AEL40763;

XX

DT 11-JUN-2007 (revised)

DT 11-JAN-2007 (first entry)

XX

DE Human tumor-associated DNA SEQ ID NO 1.

```
XX
KW
     antigen; tumor; neoplasm; diagnosis; therapeutic; cytostatic;
     tumor-associated antigen; colon tumor; rectal tumor; renal tumor;
KW
     adrenal tumor; breast tumor; prostate tumor; uterus tumor; ovary tumor;
KW
     endometroid carcinoma; esophagus tumor; liver tumor; pancreas tumor;
KW
     skin tumor; brain tumor; lung tumor; lymphoma; nervous system tumor;
KW
KW
     carcinoma; chromosome-6; gene; ds.
XX
```

OS Homo sapiens.

WO2006100089-A2.

PD 28-SEP-2006.

XX PN

XX

XX PF

XX PR

XX

XX PΤ

PΙ

XX

DR

PΤ

XX PS

XX CC

CC CC

CC

CC

CC

CC

CC

CC CC

CC

CC

CC

CC

CC

23-MAR-2006; 2006WO-EP002695.

24-MAR-2005; 2005DE-10013846.

PA (GANY-) GANYMED PHARM AG.

> Sahin U, Tuereci O, Koslowski M, Helftenbein G, Usener D; Schlueter V;

DR WPI: 2006-789387/80. DR

P-PSDB: AEL40764. PC:NCBI; qi22697845.

XX PT Pharmaceutical composition containing inhibitors of specific tumor-PT

associated antigens, useful for treating cancers, also diagnosis and monitoring using antigen-specific reagents.

which is localized on chromosome 6 (6q26-27).

Claim 1; SEQ ID NO 1; 398pp; German.

This invention describes a novel method of identifying surface-associated antigens for tumor diagnosis and therapy whereby tumor-associated genetic products are identified and treated. The therapy and diagnosis applies to diseases in which the tumor-associated products are aberrantly expressed, i.e. proteins, polypeptides and peptides expressed in association with the tumor and it encodes nucleic acis for said proteins, polypeptides and peptides. The novel process has applications in medicine, particularly oncology and can be used to make pharmaceuticals for the therapy of colon, rectal, kidney, adrenal glands, breast, prostate, uterus, ovary, endometrial, esophagus, blood, liver, pancreas, skin, brain, lung cancers, lymphoma, neuroblastoma or other carcinomas. This sequence encodes a tumor-associated protein used in the method of the invention

Revised record issued on 11-JUN-2007: Enhanced with precomputed information from BOND.

```
XX
   Sequence 920 BP; 238 A; 255 C; 255 G; 172 T; 0 U; 0 Other;
SO
 Ouerv Match
                 100.0%; Score 920; DB 3; Length 920;
 Best Local Similarity 100.0%; Pred. No. 2.3e-273;
 Matches 920: Conservative 0: Mismatches
                                  0:
                                     Indels
                                            0:
                                              Gaps
                                                    0:
        1 TOTGTAGAGGGGAATGCCTGTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTG 60
Qу
         1 TCTGTAGAGGGGAATGGCTGTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTG 60
Db
       61 CACTTGGTGAGAAACCGATGCCTCTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGAC 120
Qv
         Db
       61 CACTTGGTGAGAAACCGATGCCTCTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGAC 120
      Qv
         Db
      181 AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT 240
Qу
         181 AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT 240
Db
      241 GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGACCTCCATCAGGTGTCGACAAGGAA 300
Qу
         Db
      241 GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGACCTCCATCAGGTGTCGACAAGGAA 300
Qv
      301 GATCCCAGTAGGGCAGGAGACAGGAGCACCTCTGCTGTGGCCAATGCAGGAATGCTGGCC 360
         Dh
      301 GATCCCAGTAGGGCAGGAGACAGGAGCACCTCTGCTGTGGCCAATGCAGGAATGCTGGCC 360
      361 ATCATTGCTTCTGCTGGGCGACTGAGAAGCATCACCCACTTCCCCAGAACCTTTTTTACG 420
0v
         361 ATCATTGCTTCTGCTGGGCGACTGAGAAGCATCACCCACTTCCCCAGAACCTTTTTTACG 420
Db
      421 TGGAGTGAAAACTTTAAGGGGCTGTCCAGCTAAACCTCCAGACCCCAGATCCCATGCCAA 480
Qу
         421 TGGAGTGAAAACTTTAAGGGGCTGTCCAGCTAAACCTCCAGATCCCAGATCCCATGCCAA 480
Db
      481 TTTCTCTGCTTCTGCAAAAGGACTTCAAGTGAAAGACATCTGCAGCTGTGAACGGGGGGTA 540
Qy
         481 TTTCTCTGCTTCTGCAAAAGGACTTCAAGTGAAAGACATCTGCAGCTGTGAACGGGGGTA 540
Dh
      541 AAACCTCCCTGCCCCAGGCCCCAAGCAAGGATTTCCCTAGCGGGGAGGAAGGTAGAATC 600
Qv
Dh
      541 AAACCCTCCCTGCCCCAGGCCCCAAGCAAGGATTTCCCTAGCGGGGAGGAAGGTAGAATC 600
      601 GAGAGACCTCTAACCCTGGGAGAGGGGGGGGGAAATCTCCGAGGACCAGGGTTATGCAA 660
```

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528_121050_us-10-573-229a-1.rng.
```

Db

```
Οv
       Db
       721 CAAGAGCCAGCCCGAACCCAAGGCACAGCTTATACTGGCCCGGGGCCTGGGGGGGCAC 780
Qy
Dh
       721 CAAGAGCCAGCCCGAACCCAAGGCACAGCTTATACTGGCCCCGGGGCCTGGGGGGGCAC 780
       781 GAAAACCTTGAAAAAGGGGCCCTTCCCAGCTTCCCCGGGGGTAAGGGCTTTACCCCCCA 840
Qv
          Db
       781 GAAAACCTTGAAAAAGGGGCGCCTTCCCAGCTTCCCCGGGGGTAAGGGCTTTACCCCCCA 840
       841 GAGGGGGGGGAAAAATCCGAGTGGGATCTTTCCCAACCGCCGAAGACTAAAACCTTTAA 900
0v
          841 GAGGGGGGGGAAAAATCCGAGTGGGATCTTTCCCAACCGCCGAAGACTAAAACCTTTAA 900
Db
       901 ACCCCCAAAGAAACCTTCTA 920
Οv
          Db
       901 ACCCCCAAAGAAACCTTCTA 920
RESULT 3
ADZ14751/c
ID
   ADZ14751 standard; DNA; 390 BP.
XX
AC
   ADZ14751;
XX
DT
   16-JUN-2005 (first entry)
XX
DE
   ORF DNA encoding a human tumor associated antigen Seg 267.
XX
KW
   chromosome 6; tumor-associated antigen; antisense therapy;
KW
   RNA interference; diagnosis; cytostatic; cancer; metastasis; gene; ds.
XX
OS
   Homo sapiens.
XX
PΝ
   WO2005030250-A2.
XX
   07-APR-2005.
PD
XX
PF
   23-SEP-2004; 2004WO-EP010697.
XX
PR
   26-SEP-2003: 2003DE-01044799.
XX
PΑ
   (GANY-) GANYMED PHARM AG.
XX
PΤ
   Tuereci O, Sahin U, Helftenbein G, Schlueter V;
```

601 GAGAGACCTCTAACCCTGGGAGAGGAGGGGGAAATCTCCGAGGACCAGGGTTATGCAA 660

WPI: 2005-285105/29.

XX

DR

```
P-PSDB: ADZ14752.
DR
XX
PТ
    Compositions for treating and diagnosing cancer, contain agents that
    inhibit activity or expression of specific tumor-associated antiqens, or
PT
PT
    bind to these antigens or nucleic acid encoding them.
XX
    Claim 1; SEO ID NO 267; 388pp; German.
PS
XX
CC
    This invention relates to a novel pharmaceutical composition which
CC
    comprises an agent that inhibits the activity or expression of a specific
    tumor-associated antigen (TAg). Specifically, it relates to tumor-
CC
CC
    associated antigens that are encoded by one of the following 75 nucleic
CC
    acids sequences, fragments or derivatives thereof as given in the
CC
    specification. The present invention describes antisense nucleic acids
CC
    that hybridize to these TAg polynucleotides that may be used for
    antisense therapy and RNA interference, as well as methods for diagnosing
CC
CC
    a disease associated with (abnormal) expression of TAg. Accordingly, it
    further relates to methods for determining regression, progression and
CC
CC
    onset of a disease by administering an antibody, optionally linked to a
CC
    therapeutic or diagnostic agent, that binds to TAg. As such, cytostatic
CC
    compositions derived thereof are used for treating a wide range of
CC
    cancers and their metastases, where the agents that bind specifically to
CC
    TAg, and the nucleic acids that encode them, are useful for diagnosis and
CC
    monitoring. This polynucleotide is a human DNA open reading frame
CC
    sequence encoding a tumor associated antigenic protein of the invention.
XX
SO
    Sequence 390 BP; 101 A; 99 C; 88 G; 102 T; 0 U; 0 Other;
 Ouerv Match
                       19.4%; Score 178.2; DB 2; Length 390;
 Best Local Similarity 93.5%; Pred. No. 6.7e-44;
 Matches 186; Conservative 0; Mismatches 13;
                                                  Indels
                                                               Gaps
                                                                       0:
         328 ACCTCTGCTGTGGCCAATGCAGGAATGCTGGCCATCATTGCTTCTGCTGGGCGACTGAGA 387
QУ
             264 ATCTCTGCTGTGGCCAATGCAGGAATGCTGGCCATCATTGCTTCTGCTGGGCGACTGAGA 205
Db
         388 AGCATCACCCACTTCCCCAGAACCTTTTTTACGTGGAGTGAAAACTTTAAGGGGCTGTCC 447
Qv
             204 AGCATCACCCACTTCCCCAGAACCTTTTTTACGTGGAGTGAAAACTTTAAGGGGCTGTCC 145
Db
         448 AGCTAAACCTCCAACCTCCAGATCCCATGCCAATTTCTCTGCTTCTGCAAAAGGACTTCA 507
Qv.
             Db
         144 AGCTAAACCTCCAACCTCCAGATCCCATGCCAATTTCTCTGCTTCTGCAAAAGGACTCAT 85
Qу
        508 AGTGAAAGACATCTGCAGC 526
             Db
         84 GGGCAGCGTTATCCACAGC 66
```

AEL41029 standard; DNA; 390 BP.

RESULT 4 AEL41029/c

ID

```
AC
     AEL41029:
XX
DT
     11-JAN-2007 (first entry)
XX
DE
     Human tumor-associated DNA SEQ ID NO 267.
XX
KW
     antigen; tumor; neoplasm; diagnosis; therapeutic; cytostatic;
     tumor-associated antigen; colon tumor; rectal tumor; renal tumor;
KW
     adrenal tumor; breast tumor; prostate tumor; uterus tumor; ovary tumor;
KW
KW
     endometroid carcinoma; esophagus tumor; liver tumor; pancreas tumor;
     skin tumor; brain tumor; lung tumor; lymphoma; nervous system tumor;
KW
KW
     carcinoma; chromosome-6; gene; ds.
XX
OS
     Homo sapiens.
XX
PN
     WO2006100089-A2.
XX
PD
     28-SEP-2006.
XX
PF
     23-MAR-2006; 2006WO-EP002695.
XX
PR
     24-MAR-2005: 2005DE-10013846.
XX
PΑ
     (GANY-) GANYMED PHARM AG.
XX
PΙ
     Sahin U, Tuereci O, Koslowski M, Helftenbein G, Usener D;
PΙ
     Schlueter V:
XX
DR
     WPI: 2006-789387/80.
     P-PSDB: AEL41030.
DR
XX
PT
     Pharmaceutical composition containing inhibitors of specific tumor-
     associated antigens, useful for treating cancers, also diagnosis and
PT
PT
     monitoring using antigen-specific reagents.
XX
PS
     Claim 1: SEO ID NO 267: 398pp; German.
XX
CC
     This invention describes a novel method of identifying surface-associated
CC
     antigens for tumor diagnosis and therapy whereby tumor-associated genetic
     products are identified and treated. The therapy and diagnosis applies to
CC
CC
     diseases in which the tumor-associated products are aberrantly expressed.
     i.e. proteins, polypeptides and peptides expressed in association with
CC
     the tumor and it encodes nucleic acis for said proteins, polypeptides and
```

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528 121050 us-10-573-229a-1.rng.
```

```
peptides. The novel process has applications in medicine, particularly
    oncology and can be used to make pharmaceuticals for the therapy of
    colon, rectal, kidney, adrenal glands, breast, prostate, uterus, ovary,
CC
CC
    endometrial, esophagus, blood, liver, pancreas, skin, brain, lung
CC
    cancers, lymphoma, neuroblastoma or other carcinomas. This sequence
CC
    encodes a tumor-associated protein used in the method of the invention
CC
    which is localized on chromosome 6 (6926-27).
XX
SO
    Sequence 390 BP; 101 A; 99 C; 87 G; 102 T; 0 U; 1 Other;
 Query Match
                      19.2%; Score 176.6; DB 3; Length 390;
 Best Local Similarity 93.0%; Pred. No. 2.1e-43;
 Matches 185; Conservative 0; Mismatches 14; Indels 0; Gaps
                                                                 0:
        328 ACCTCTGCTGTGGCCAATGCAGGAATGCTGGCCATCATTGCTTCTGCTGGGCGACTGAGA 387
Οv
            Db
        264 ATCTCTGCTGTGGCCAATGCAGGAATGCTGGCCATCATTGCTTCTGCTGGGCGACTGAGA 205
        388 AGCATCACCCACTTCCCCAGAACCTTTTTTACGTGGAGTGAAAACTTTAAGGGGGCTGTCC 447
Οv
            Db
        204 AGCATCACCCACTTCCCCAGAACCTTTTTTACGTGGAGTGAAAACTTTAAGGGGGCTGTCC 145
        448 AGCTAAACCTCCAACCTCCAGATCCCATGCCAATTTCTCTGCTTCTGCAAAAGGACTTCA 507
Qv
            Db
        144 AGCTAAACCTCCAACCTCCAGATWCCATGCCAATTTCTCTGCTTCTGCAAAAGGACTCAT 85
Qν
        508 AGTGAAAGACATCTGCAGC 526
            Db
        84 GGGCAGCGTTATCCACAGC 66
RESULT 5
ADY36463
ID
    ADY36463 standard; DNA; 561 BP.
XX
AC
    ADY36463:
XX
```

05-MAY-2005 (first entry)

DT XX

HIRA genomic fragment SEQ ID NO 108.

DE XX

KW hybridization; DNA detection; neoplasm; genetic disorder; cytogenetics; HIRA; ds. KW

XX OS Homo sapiens.

XX

PN W0200188089-A2.

XX PD 22-NOV-2001.

```
XX
PF
     15-MAY-2001; 2001WO-US015674.
XX
PR
     16-MAY-2000; 2000US-00573080.
PR
     14-MAY-2001; 2001US-00854867.
XX
PA
     (CHIL-) CHILDREN'S MERCY HOSPITAL.
XX
PΤ
     Knoll JHM, Rogan PK, Cazarro PM;
XX
DR
     WPI; 2002-062378/08.
XX
     Single copy genomic hybridization probes for detecting specific nucleic
PT
     acid sequences in sample by in situ hybridization useful for detection of
PT
     acquired or inherited genetic diseases.
PT
XX
PS
     Example 1; SEQ ID NO 108; 67pp; English.
XX
CC
     The invention describes a nucleic acid hybridization probe (I) comprising
     a labeled, single copy nucleic acids of at least 50 nucleotides, which
CC
CC
     will hybridize to a deduced single copy sequence interval in target
CC
     nucleic acid (TNA) of known sequence. (I) is useful in a hybridization
CC
     method which comprises preparing a reaction mixture comprising TNA and
CC
     (I) which hybridizes to TNA, and causing (I) to hybridize to TNA, where
     the hybridization method is from in situ hybridization, Southern blot,
CC
CC
     and other methods in which nucleic acid is immobilized, where the method
CC
     further comprises selecting a single copy nucleic acid which will
     hybridize to a duplicon or triplicon sequence domain. (I) is useful for:
CC
CC
     determining the existence of previously unknown repeat sequence families
CC
     in a genome; determining a chromosome breakpoint and in the fields of
CC
     cytogenetics and molecular genetics for determining the presence of
CC
     specific nucleic acid sequences in a sample of eukaryotic origin, e.g.
CC
     the probes may be used to analyze specific chromosomal locations by in
     situ hybridization as a detection of acquired or inherited genetic
CC
     diseases especially for detection of genetic or neoplastic disorders.
CC
CC
     Unlike prior art techniques, (I) permits more precise chromosomal
CC
     breakpoint determinations by in situ hybridization. Hybridization
CC
     techniques utilizing (I), have made it possible to obtain reliable,
CC
     easily detectable signals with relatively small probes. A readily
CC
     detectable signal was obtained with a probe on the order of 2 kb in
CC
     length, using fluorescent in situ hybridization (FISH) technology. This
CC
     sensitivity of (I) is improved compared to the prior art, because the
CC
     probes of (I) are homogeneous single copy sequences. However, smaller
CC
     amplified segments, each comprising non-repetitive sequences, may also be
CC
     used in combination as probes to achieve adequate signals for in situ
     hybridization. Complex single copy probes that hybridize to duplicated or
CC
CC
     triplicated targets can also increase hybridization signals. This
```

CC

sequence represents a human HIRA genomic sequence that shows homology to

a known high-complexity repeat sequence family of the human genome and is

```
used in the creation of an HIRA gene probe.
XX
    Sequence 561 BP; 146 A; 146 C; 124 G; 141 T; 0 U; 4 Other;
SO
                     13.3%; Score 122.6; DB 1; Length 561;
 Query Match
 Best Local Similarity 69.6%; Pred. No. 1.3e-26;
 Matches 201: Conservative 0: Mismatches 74: Indels 14: Gaps
                                                                2:
          2 CTGTAGAGGGGAATGGCTGTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGC 61
Qу
                        Db
        201 CTCTGGGGGAAGCCAGCTGCCATGTCATGAGGACACTCAAGCAGCCCTGTGGAGAGGCCC 260
        62 ACTTGGTGAGAAACCGATGCCT-CTGCCAACCACCTGCACTAACCTGCTGGGTC----- 114
Qy
           261 ATGTGGCAAGGAACTGAGGCCTCCTGCCAACAGCCAGCAAGGAACTGAGGCCTCCTGCCA 320
Db
        115 -----TGAGACTGAGCCACTTTGGAAGCTGATCTTGGAGCACCAGTCAAGCCCTTAGC 167
Qv
                  321 ACAGCCATGTGAGTGAGCCATCTTGGAAGCAGATCCTCCAGCCCCAGTCAAGCCTTCAGA 380
Db
        168 TGGCTGCAGCCACAGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATC 227
0v
           Db
        381 TGACTGCAGCCCAGCTAACATCTTGACTGCAACCTCATGAGAGACCCTGAGCCAGAACC 440
        228 CCCTGGCTAAATTGCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGA 276
Qу
            Db
        441 ACCCAGCTAAGCTGCTCCTAAATTCCTGACCCACAGAAACTGTGAGAGA 489
RESULT 6
ADS31075
TD
    ADS31075 standard; DNA; 561 BP.
XX
AC
    ADS31075;
XX
DT
    18-NOV-2004 (first entry)
XX
DE
    Human genome high complexity repeat found in the HIRA gene #108.
XX
KW
    Human: ds:
    histone cell cycle regulation defective, S. cerevisiae homologue A; HIRA;
KW
    high complexity repeat; in situ hybridisation; Southern blot;
KW
    chromosome breakpoint; inherited genetic disease; neoplastic disorder;
KW
    chromosome 22; DiGeorge syndrome; Velo-Cardio-facial syndrome.
KW
XX
OS
    Homo sapiens.
XX
    US2003224356-A1.
PN
```

XX

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528_121050_us-10-573-229a-1.rng.
PD
     04-DEC-2003.
XX
PF
     14-MAY-2001; 2001US-00854867.
XX
PR
     16-MAY-2000; 2000US-00573080.
XX
PA
     (KNOL/) KNOLL J H M.
     (ROGA/) ROGAN P K.
PA
XX
PΙ
     Knoll JHM, Rogan PK;
XX
DR
     WPI: 2002-062378/08.
XX
PΤ
     Single copy genomic hybridization probes for detecting specific nucleic
     acid sequences in sample by in situ hybridization useful for detection of
PT
PΤ
     acquired or inherited genetic diseases.
XX
PS
     Example 1; SEQ ID NO 108; 30pp; English.
XX
     The invention relates to a nucleic acid hybridisation probe comprising a
CC
CC
     labelled, single copy nucleic acids of at least 50 nucleotides, which
CC
     will hybridise to a deduced single copy sequence interval in target
CC
     nucleic acid (TNA) of known sequence. The single copy sequence is deduced
CC
     by comparing the target nucleic acid (e.g. a disease causing gene) with a
CC
     collection of high and low complexity repeat sequences as found in the
CC
     genome of the organism from containing the target nucleic acid. The probe
CC
     is generated by PCR on the target sequence. The probe is essentially free
     of blocking nucleic acid sequences which will hybridise to repeat
CC
CC
     sequences within the genome of which the TNA is a part, and is labelled
CC
     with a label selected from fluorochrome-responsive labels, fluorochromes,
CC
     calorimetric chemical, conjugated proteins, antibodies, antigens and
CC
     their mixtures. The probe is useful in a hybridisation method, where the
CC
     hybridisation method is from in situ hybridisation, Southern blot, and
     other methods in which nucleic acid is immobilised, where the method
CC
CC
     further comprises selecting a single copy nucleic acid which will
CC
     hybridise to a duplicon or triplicon sequence domain. The probe is useful
CC
     for determining the existence of previously unknown repeat sequence
CC
     families in a genome. The method comprises reacting a labelled probe with
     the genome, causing the probe to hybridise and ascertaining if the probe
CC
CC
     hybridises to the genome at more than three preferably ten different
CC
     locations as a determination of new repeat sequence family, where the
```

determining step comprises selecting the single copy sequence from a

determining a chromosome breakpoint and is useful in the fields for

cytogenetics and molecular genetics for determining the presence of specific nucleic acid sequences in a sample of eukaryotic origin, e.g.

the probes may be used to analyse specific chromosomal locations by in situ hybridisation as a detection of acquired or inherited genetic

diseases especially for detection of genetic or neoplastic disorders.

duplicon or triplicon sequence domain. The probe is useful for

CC

CC

CC

CC

CC CC

CC

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528_121050_us-10-573-229a-1.rng.
```

```
Unlike prior art techniques, the probe permits more precise chromosomal
     breakpoint determinations by in situ hybridisation. The genomic sequence
CC
CC
     comprising the human HIRA gene (histone cell cycle regulation defective,
CC
     S. cerevisiae, homologue A) was analysed for single copy sequence
CC
     intervals for use as probes of the invention. HIRA is located on
     chromosome 22 as a duplicate, deletions of 1 copy lead to DiGeorge and
CC
     Velo-Cardio-facial syndromes. The present sequence is a high complexity
CC
     repeat found within the human genome used to analyse the HIRA gene for
CC
CC
     repeat regions. Note: The sequence data for this patent did not form part
CC
     of the printed specification, but was obtained in electronic format
CC
     directly from USPTO at segdata.uspto.gov/sequence.html?DocID=20030224356.
XX
     Sequence 561 BP; 146 A; 146 C; 124 G; 141 T; 0 U; 4 Other;
SO
  Ouerv Match
                          13.3%; Score 122.6; DB 1; Length 561;
  Best Local Similarity 69.6%; Pred. No. 1.3e-26;
```

```
Matches 201; Conservative 0; Mismatches 74; Indels 14; Gaps
                                                          2;
         2 CTGTAGAGGGGAATGGCTGTTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGC 61
Qу
                      201 CTCTGGGGGAAGCCAGCTGCCATGTCATGAGGACACTCAAGCAGCCCTGTGGAGAGGCCC 260
Db
       62 ACTTGGTGAGAAACCGATGCCT-CTGCCAACCACCTGCACTAACCTGCTGGGTC----- 114
Qv
          Db
       261 ATGTGGCAAGGAACTGAGGCCTCCTGCCAACAGCCAGCAAGGAACTGAGGCCTCCTGCCA 320
Qν
       115 -----TGAGACTGAGCCACTTTGGAAGCTGATCTTGGAGCACCAGTCAAGCCCTTAGC 167
                Db
       321 ACAGCCATGTGAGTGAGCCATCTTGGAAGCAGATCCTCCAGCCCCAGTCAAGCCTTCAGA 380
       168 TGGCTGCAGCCACAGCAACAACAAGACTGCAACCTCCTGGGGGGATCCTGAGCCAGAATC 227
Qу
          381 TGACTGCAGCCCCAGCTAACATCTTGACTGCAACCTCATGAGAGCCCTGAGCCAGAACC 440
Db
       228 CCCTGGCTAAATTGCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGA 276
Qy
```

```
RESULT 7
ADY36462
ID ADY36462 standard; DNA; 541 BP.
XX
AC ADY36462;
XX
DT 05-MAY-2005 (first entry)
XX
DE HIRA genomic fragment SEO ID NO 107.
```

Db

XX

```
KW
     hybridization; DNA detection; neoplasm; genetic disorder; cytogenetics;
KW
     HIRA: ds.
XX
OS
     Homo sapiens.
XX
PN
     WO200188089-A2.
XX
PD
     22-NOV-2001.
XX
PF
     15-MAY-2001; 2001WO-US015674.
XX
PR
     16-MAY-2000: 2000US-00573080.
     14-MAY-2001; 2001US-00854867.
PR
XX
     (CHIL-) CHILDREN'S MERCY HOSPITAL.
PA
XX
PΙ
     Knoll JHM, Rogan PK, Cazarro PM;
XX
DR
     WPI; 2002-062378/08.
XX
PТ
     Single copy genomic hybridization probes for detecting specific nucleic
PΤ
     acid sequences in sample by in situ hybridization useful for detection of
PΤ
     acquired or inherited genetic diseases.
XX
PS
     Example 1; SEO ID NO 107; 67pp; English.
XX
CC
     The invention describes a nucleic acid hybridization probe (I) comprising
CC
     a labeled, single copy nucleic acids of at least 50 nucleotides, which
CC
     will hybridize to a deduced single copy sequence interval in target
     nucleic acid (TNA) of known sequence. (I) is useful in a hybridization
CC
CC
     method which comprises preparing a reaction mixture comprising TNA and
CC
     (I) which hybridizes to TNA, and causing (I) to hybridize to TNA, where
CC
     the hybridization method is from in situ hybridization, Southern blot,
     and other methods in which nucleic acid is immobilized, where the method
CC
CC
     further comprises selecting a single copy nucleic acid which will
CC
     hybridize to a duplicon or triplicon sequence domain. (I) is useful for:
CC
     determining the existence of previously unknown repeat sequence families
CC
     in a genome; determining a chromosome breakpoint and in the fields of
CC
     cytogenetics and molecular genetics for determining the presence of
CC
     specific nucleic acid sequences in a sample of eukarvotic origin. e.g.
CC
     the probes may be used to analyze specific chromosomal locations by in
CC
     situ hybridization as a detection of acquired or inherited genetic
CC
     diseases especially for detection of genetic or neoplastic disorders.
CC
     Unlike prior art techniques, (I) permits more precise chromosomal
     breakpoint determinations by in situ hybridization. Hybridization
CC
     techniques utilizing (I), have made it possible to obtain reliable,
CC
CC
     easily detectable signals with relatively small probes. A readily
     detectable signal was obtained with a probe on the order of 2 kb in
CC
     length, using fluorescent in situ hybridization (FISH) technology. This
```

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528_121050_us-10-573-229a-1.rng.
```

sensitivity of (I) is improved compared to the prior art, because the probes of (I) are homogeneous single copy sequences. However, smaller CC amplified segments, each comprising non-repetitive seguences, may also be CC used in combination as probes to achieve adequate signals for in situ hybridization. Complex single copy probes that hybridize to duplicated or triplicated targets can also increase hybridization signals. This CC sequence represents a human HIRA genomic sequence that shows homology to CC a known high-complexity repeat sequence family of the human genome and is CC CC used in the creation of an HIRA gene probe. XX

SQ Sequence 541 BP; 135 A; 137 C; 123 G; 126 T; 0 U; 20 Other;

```
Query Match 13.2%; Score 121.2; DB 1; Length 541; Best Local Similarity 68.8%; Pred. No. 3.5e-26; Matches 190; Conservative 3; Mismatches 81; Indels 2; Gaps 2;
```

```
2 CTGTAGAGGGGAATGGCTGCTGTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGC 61
Qу
                  197 CTCTGGGGGAAGCCAGCTGCCATGCTATGAAGACACTCAAGCAGCCTA-TGGAGAAGTCC 255
Db
      62 ACTTGGTGAGAAACCGATGCCT-CTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGAC 120
0v
         11:111 1
Db
      256 ACGTGGSAAGGAACTGAGGTCTCCTGCCAACAGCCAGCTTCGACYTGCCAGCCATGTGAG 315
      Qу
         Db
      316 TGAGCCATCTTGGAAGCGGATCCTCCAGCCCCAGTYAAGCCTTCAGATGACTGCAGCCCC 375
Qv
      181 AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT 240
```

```
RESULT 8
ADS31074
ID ADS31074 standard; DNA; 541 BP.
XX
AC ADS31074;
XX
DT 18-NOV-2004 (first entry)
```

XX DE Human genome high complexity repeat found in the HIRA gene #107.

XX KW Human; ds;

KW Human; ds;
KW histone cell cycle regulation defective, S. cerevisiae homologue A; HIRA;

```
KW
     high complexity repeat; in situ hybridisation; Southern blot;
     chromosome breakpoint; inherited genetic disease; neoplastic disorder;
KW
     chromosome 22; DiGeorge syndrome; Velo-Cardio-facial syndrome.
KW
XX
OS
     Homo sapiens.
XX
PN
     US2003224356-A1.
XX
PΩ
     04-DEC-2003.
XX
PF
     14-MAY-2001; 2001US-00854867.
XX
PR
     16-MAY-2000: 2000US-00573080.
XX
PA
     (KNOL/) KNOLL J H M.
PA
     (ROGA/) ROGAN P K.
XX
PΙ
     Knoll JHM. Rogan PK:
XX
DR
     WPI: 2002-062378/08.
XX
PΤ
     Single copy genomic hybridization probes for detecting specific nucleic
PΤ
     acid sequences in sample by in situ hybridization useful for detection of
PΤ
     acquired or inherited genetic diseases.
XX
PS
     Example 1; SEQ ID NO 107; 30pp; English.
XX
CC
     The invention relates to a nucleic acid hybridisation probe comprising a
CC
     labelled, single copy nucleic acids of at least 50 nucleotides, which
CC
     will hybridise to a deduced single copy sequence interval in target
CC
     nucleic acid (TNA) of known sequence. The single copy sequence is deduced
CC
     by comparing the target nucleic acid (e.g. a disease causing gene) with a
CC
     collection of high and low complexity repeat sequences as found in the
CC
     genome of the organism from containing the target nucleic acid. The probe
     is generated by PCR on the target sequence. The probe is essentially free
CC
CC
     of blocking nucleic acid sequences which will hybridise to repeat
CC
     sequences within the genome of which the TNA is a part, and is labelled
CC
     with a label selected from fluorochrome-responsive labels, fluorochromes,
CC
     calorimetric chemical, conjugated proteins, antibodies, antigens and
     their mixtures. The probe is useful in a hybridisation method, where the
CC
CC
     hybridisation method is from in situ hybridisation, Southern blot, and
CC
     other methods in which nucleic acid is immobilised, where the method
CC
     further comprises selecting a single copy nucleic acid which will
CC
     hybridise to a duplicon or triplicon sequence domain. The probe is useful
CC
     for determining the existence of previously unknown repeat sequence
CC
     families in a genome. The method comprises reacting a labelled probe with
```

the genome, causing the probe to hybridise and ascertaining if the probe hybridises to the genome at more than three preferably ten different

locations as a determination of new repeat sequence family, where the

CC

CC

determining step comprises selecting the single copy sequence from a duplicon or triplicon sequence domain. The probe is useful for CC determining a chromosome breakpoint and is useful in the fields for CC cytogenetics and molecular genetics for determining the presence of CC specific nucleic acid sequences in a sample of eukaryotic origin, e.g. the probes may be used to analyse specific chromosomal locations by in CC situ hybridisation as a detection of acquired or inherited genetic CC diseases especially for detection of genetic or neoplastic disorders. CC Unlike prior art techniques, the probe permits more precise chromosomal CC breakpoint determinations by in situ hybridisation. The genomic sequence CC comprising the human HIRA gene (histone cell cycle regulation defective, CC S. cerevisiae, homologue A) was analysed for single copy sequence intervals for use as probes of the invention. HIRA is located on CC CC chromosome 22 as a duplicate, deletions of 1 copy lead to DiGeorge and CC Velo-Cardio-facial syndromes. The present sequence is a high complexity CC repeat found within the human genome used to analyse the HIRA gene for CC repeat regions. Note: The sequence data for this patent did not form part CC of the printed specification, but was obtained in electronic format CC directly from USPTO at segdata.uspto.gov/sequence.html?DocID=20030224356. XX

SQ Sequence 541 BP; 135 A; 137 C; 123 G; 126 T; 0 U; 20 Other;

Best Local Similarity 68.8%; Pred. No. 3.5e-26;

Matches 190; Conservative 3; Mismatches 81; Indels Gaps 2: Qv 2 CTGTAGAGGGGAATGGCTGTGTGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGC 61 Db 197 CTCTGGGGGAAGCCAGCTGCCATGCTATGAAGACACTCAAGCAGCCTA-TGGAGAAGTCC 255 62 ACTTGGTGAGAAACCGATGCCT-CTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGAC 120 Qу 11:11 256 ACGTGGSAAGGAACTGAGGTCTCCTGCCAACAGCCAGCTTCGACYTGCCAGCCATGTGAG 315 Db

13.2%; Score 121.2; DB 1; Length 541;

316 TGAGCCATCTTGGAAGCGGATCCTCCAGCCCCAGTYAAGCCTTCAGATGACTGCAGCCCC 375
181 AGCCAACAACAAGACTGCAACCTCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATT 240

2y 241 GCTCCTTGATTCTTAACCCACAGAAATTGTGTAAGA 276

Db 436 GCTCCTARATTCCTGACCCACAGAAACTGTGAGATA 471

RESULT 9

Qy

Db

Qν

Db

Query Match

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528_121050_us-10-573-229a-1.rng.
```

Human secreted protein-related DNA sequence #189.

cardiovascular disorder; atherosclerosis; mvocarditis;

gene therapy; human; secreted protein; haemopoietic disorder;

infectious disease; HIV; AIDS; endocrine disorder; diabetes;

haematological disorder; anaemia; haemophilia; inflammatory disorder; inflammatory bowel disease; Crohn's disease; neoplastic disease; cancer;

gastrointestinal disorder; duodenal ulcer; gastroenteritis; gene; ds.

leukaemia; wound healing; epithelial cell proliferation disorder; immune disorder; autoimmune disorder; asthmatic disorder;

ADC20771 standard; DNA; 737 BP.

18-DEC-2003 (first entry)

ID

XX

AC XX DT

XX

XX KW

KW

KW KW

KW

KW

KW KW ADC20771:

```
XX
OS
     Homo sapiens.
XX
PN
     WO200292787-A2.
XX
PD
     21-NOV-2002.
XX
PF
     26-MAR-2002; 2002WO-US009257.
XX
PR
     27-MAR-2001; 2001US-0278650P.
PR
     12-SEP-2001; 2001US-00950082.
     12-SEP-2001: 2001US-00950083.
PR
XX
PΑ
     (HUMA-) HUMAN GENOME SCI INC.
XX
PΙ
     Rosen CA, Ruben SM;
XX
DR
     WPI: 2003-129287/12.
XX
     New human secreted proteins and nucleic acid molecules, useful for
PΤ
     preparing a diagnostic or pharmaceutical composition for diagnosing,
PT
PΤ
     preventing or treating hematopoietic or hematologic disorders, e.g.
PΤ
     anemia or hemophilia.
XX
PS
     Disclosure; SEQ ID NO 725; 1512pp; English.
XX
CC
     The invention comprises the amino acid and coding sequences of human
CC
     secreted proteins. The DNA and protein sequences of the invention are
CC
     useful for detecting, preventing, diagnosing, prognosticating, treating
     or ameliorating: haematopoietic or haematological disorders (e.g. anaemia
CC
CC
     and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease
     and Crohn's disease); neoplastic disease (e.g. cancer and leukaemia);
CC
     wound healing and disorders of epithelial cell proliferation; immune
http://es/ScoreAccessWeb/GetItem.action?AppId=10573..._121050_us-10-573-229a-1.rng&ItemType=4&startByte=0 (20 of 32)6/15/2009 10:35:14 AM
```

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528_121050_us-10-573-229a-1.rng.
```

```
disorders (e.q. autoimmune disorders and asthmatic disorders);
    cardiovascular disorders (e.g. atherosclerosis and myocarditis);
CC
CC
    infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);
CC
    and gastrointestinal disorders (e.g. duodenal ulcers and
CC
    gastroenteritis). The present DNA sequence was used in the
CC
    exemplification of the invention.
XX
SO
    Sequence 737 BP; 198 A; 174 C; 148 G; 217 T; 0 U; 0 Other;
 Ouerv Match
                      11.4%; Score 104.8; DB 1; Length 737;
 Best Local Similarity 68.5%; Pred. No. 4.9e-21;
 Matches 174: Conservative 0: Mismatches 77: Indels
                                                         3; Gaps
                                                                   2:
Qу
         24 TGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGCACTTGGTGAGAAACCGATGCCT 83
            Db
        398 TTTCATGAGGATACTCAAGCATTCCTATGGAGAGATCCACATGGTGAGAAACTGAAGCCT 457
        84 -CTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC 142
Qv
             Db
        458 CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT 517
        143 TTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCACAGCCAACAACAAGACTGCAACC 202
Qv
               Db
        518 CTCTAGCCCTAGTCAGGCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC 577
Qу
        203 TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA 262
            Db
        578 TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA 635
Qу
        263 GAAATTGTGTAAGA 276
            1111 1 111 111
Db
        636 GAAACTATGTGAGA 649
RESULT 10
ADA44374
    ADA44374 standard; DNA; 737 BP.
TD
XX
AC
    ADA44374;
XX
    20-NOV-2003 (first entry)
DT
XX
DE
    Human secreted protein DNA SEQ ID 567.
XX
KW
    Gene therapy; human; Antidiabetic; Anorectic; Ophthalmological;
KW
    Neuroprotective; Cerebroprotective; Antianemic; ds.
XX
OS
    Homo sapiens.
```

XX

SCORE Search Results Details for Application 10573229 and Search Result 20090528 121050 us-10-573-229a-1.rng.

Db

Οv

Db

```
263 GAAATTGTGTAAGA 276
Qy
             1111 1 111 111
Dh
         636 GAAACTATGTGAGA 649
RESULT 11
ADF10918
ID
    ADF10918 standard; DNA; 737 BP.
XX
AC
    ADF10918;
XX
DT
    12-FEB-2004 (first entry)
XX
DE
    Human secreted protein encoding sequence #240.
XX
KW
    H6EDM64; HBHAA05; HBJCR46; HBJKD16; HCMSX51; HCQBH72; HDPPQ30; HE2CM39;
KW
    HE9EA10; HGBHP91; HLDQU79; Cytostatic; Hepatotropic; Antidiabetic;
KW
    Antiinflammatory; neuroprotective; Anti-HIV; Vulnerary; Gynecological;
KW
    Antiinfertility; Gene therapy; gastrointestinal disorder; cancer;
KW
    Alzheimer's disease; chromosome identification; ds.
XX
OS
    Homo sapiens.
XX
    W0200299085-A2.
PN
XX
PD
    12-DEC-2002.
XX
PF
    26-MAR-2002; 2002WO-US009135.
XX
    27-MAR-2001; 2001US-0278650P.
PR
    12-SEP-2001; 2001US-00950082.
PR
PR
    12-SEP-2001; 2001US-00950083.
XX
PA
    (HUMA-) HUMAN GENOME SCI INC.
XX
PΙ
    Rosen CA, Ruben SM;
XX
DR
    WPI; 2003-221310/21.
XX
PT
    New human secreted polypeptides for diagnosing and treating neural.
    immune system, muscular, reproductive, gastrointestinal, cardiovascular,
PT
    renal, and proliferative disorders and cancerous diseases.
PΤ
XX
```

518 CTCTAGCCCTAGTCAGGCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC 577
203 TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA 262

578 TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA 635

PS Claim 7; SEQ ID NO 381; 855pp; English.

CC

ac ac

CC

ac ac

CC

CC

CC

CC

CC

CC

CC

aa aa

CC

CC

CC

CC

CC

CC

CC

CC

CC

XX

Db

The present invention relates to an isolated polypeptide chosen from 123 human secreted proteins, such as, H6EDM64, HBHAA05, HBJCR46, HBJKD16, HCMSX51, HCQBH72, HDPPQ30, HE2CM39, HE9EA10, HGBHP91 and HLDQU79. The polypeptides are useful for the preparation of a diagnostic or pharmaceutical composition for diagnosing or and are useful for treating or preventing diseases or conditions, such as neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, proliferative disorders and cancerous diseases and conditions. The polypeptides have immune activity, chemotactic activity, and binding activity. to treat and prevent neuronal damage which occurs in certain neuronal disorders or neuro-degenerative conditions such as Alzheimer's disease, Parkinson's disease, and acquired immunodeficiency syndrome (AIDS)-related complex, and to prevent skin aging due to sunburn by stimulating keratinocyte growth. The molecules are also useful to modulate mammalian characteristics including . The encoding sequences are useful for chromosome identification, radiation hybrid mapping, in gene therapy, for identifying individuals from minute biological samples, as additional DNA markers for restriction fragment length polymorphism (RFLP), in forensic biology, molecular weight markers on Southern gels, as diagnostic probes for the presence of a specific mRNA in a particular cell type, to raise anti-DNA antibodies using DNA immunization techniques, and as an antigen to elicit an immune response. The present sequence represents a human secreted protein encoding sequence of the invention.

SQ Sequence 737 BP; 198 A; 174 C; 148 G; 217 T; 0 U; 0 Other;

Ouerv Match 11.4%; Score 104.8; DB 1; Length 737; Best Local Similarity 68.5%; Pred. No. 4.9e-21; Matches 174; Conservative 0; Mismatches 77; Indels 3; Gaps 2; 24 TGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGCACTTGGTGAGAAACCGATGCCT 83 Qy Db 398 TTTCATGAGGATACTCAAGCATTCCTATGGAGAGATCCACATGGTGAGAAACTGAAGCCT 457 84 -CTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC 142 Qv Db 458 CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT 517 Qу Db 518 CTCTAGCCCTAGTCAGGCCTTCATATGACTGCAGCCAGGCTGATATTTTGACTACAACC 577 203 TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA 262 Qy TITLE TITLE

578 TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA 635

263 GAAATTGTGTAAGA 276

```
Qv
              1111 1 111 111
Db
         636 GAAACTATGTGAGA 649
RESULT 12
ADA98650
TD
     ADA98650 standard; DNA; 737 BP.
XX
AC
    ADA98650;
XX
DT
     20-NOV-2003 (first entry)
XX
DE
     Human secreted protein-related DNA sequence #243.
XX
KW
     human; secreted protein; cardiovascular disorder; arrhythmia;
     atherosclerosis; stroke; endocarditis; congestive heart failure;
KW
     rheumatic heart disease; cardiomyopathy; hemorrhoids; varicose veins;
KW
     migraine; thrombosis; neural disorder; immune system disorder;
KW
     muscular disorder; reproductive disorder; gastrointestinal disorder;
KW
     pulmonary disorder; renal disorder; proliferative disorder; cancer; ds.
KW
XX
OS
     Homo sapiens.
XX
PN
     W02003004623-A2.
XX
PD
     16-JAN-2003.
XX
PF
     26-MAR-2002; 2002WO-US009922.
XX
PR
     27-MAR-2001; 2001US-0278650P.
PR
     12-SEP-2001; 2001US-00950082.
PR
     12-SEP-2001: 2001US-00950083.
XX
PA
     (HUMA-) HUMAN GENOME SCI INC.
XX
PΤ
     Rosen CA, Ruben SM;
XX
DR
     WPI; 2003-247946/24.
XX
     New human secreted polypeptide and nucleic acid molecules, useful for
PT
     diagnosing, preventing, prognosticating or treating cardiovascular
PT
PТ
     disorders (e.g. arrhythmia, atherosclerosis, cardiomyopathy, or
PΤ
     thrombosis).
XX
PS
     Disclosure; SEO ID NO 759; 1572pp; English.
XX
     The invention comprises the amino acid and coding sequence of human
CC
     secreted proteins. The DNA and protein sequences of the invention are
```

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528 121050 us-10-573-229a-1.rng.
```

useful in the treatment of cardiovascular disorders, such as: arrhythmia, atherosclerosis, stroke, endocarditis, congestive heart failure, rheumatic heart disease, cardiomyopathy, hemorrhoids, varicose veins, CC CC migraine, or thrombosis. The DNA and protein sequences may also be used for treating or preventing: neural disorders, immune system disorders, muscular disorders, reproductive disorders, gastrointestinal disorders, CC CC pulmonary disorders, renal disorders, proliferative disorders and/or cancerous diseases. The present DNA sequence is used in the CC CC exemplification of the invention. NOTE: The present sequence is shown on CC the WIPO website. XX

Sequence 737 BP; 198 A; 174 C; 148 G; 217 T; 0 U; 0 Other; SO

```
Ouerv Match
                      11.4%; Score 104.8; DB 1; Length 737;
Best Local Similarity 68.5%; Pred. No. 4.9e-21;
Matches 174; Conservative 0; Mismatches 77; Indels
                                                                     2;
                                                          3; Gaps
```

```
24 TGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGCACTTGGTGAGAAACCGATGCCT 83
Qv
                       Db
       398 TTTCATGAGGATACTCAAGCATTCCTATGGAGAGATCCACATGGTGAGAAACTGAAGCCT 457
        84 -CTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC 142
Qv
                  Db
       458 CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT 517
Qу
       143 TTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCACAGCCAACAACAAGACTGCAACC 202
             518 CTCTAGCCCTAGTCAGGCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC 577
```

203 TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA 262

578 TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA 635

263 GAAATTGTGTAAGA 276

636 GAAACTATGTGAGA 649

```
AOD72587
     AOD72587 standard; cDNA; 737 BP.
ID
XX
```

XX DT

AOD72587;

Db

Qу

Db

Qv

Db

AC

RESULT 13

01-MAY-2008 (first entry) XX

DE Human secreted protein cDNA sequence, SEO ID 6677.

XX KW therapy; cancer; cytostatic; immune disorder; immunomodulator;

```
KW
     hematological disease; antianemic; reproduction disorder;
     musculoskeletal disease; muscular-gen.; osteopathic;
KW
     genitourinary disease; uropathic; neurological disease; neuroprotective;
KW
     respiratory disease; respiratory-gen.; endocrine disease; endocrine-gen.;
KW
     gastrointestinal disease; gastrointestinal-gen.; gene; ss.
KW
XX
OS
     Homo sapiens.
XX
PN
     US2007032413-A1.
XX
PD
     08-FEB-2007.
XX
     26-MAR-2002; 2002US-00105299.
PF
XX
PR
     26-MAR-2002; 2002US-00105299.
XX
PA
     (ROSE/) ROSEN C A.
PA
     (RUBE/) RUBEN S M.
XX
PΙ
     Rosen CA, Ruben SM;
XX
DR
     WPI; 2007-341847/32.
XX
PΤ
     New isolated human secreted proteins, useful for detecting, preventing,
PΤ
     diagnosing, prognosticating, treating, or ameliorating diseases and
PT
     disorders related to the proteins, e.g. cancers, reproductive, or
     cardiovascular diseases.
PΤ
XX
PS
     Example 1; SEQ ID NO 6677; 339pp; English.
XX
CC
     The present invention relates to human secreted polypeptides and their
CC
     coding sequences. Also claimed are: a composition comprising the
CC
     polypeptide and a carrier; and an isolated protein produced by (a)
     expressing the polypeptide by a cell; and (b) recovering the protein.
CC
     Also disclosed as new are: antibodies that bind these polypeptides;
CC
CC
     vectors; host cells; recombinant and synthetic methods for producing the
CC
     polynucleotides, polypeptides, and/or antibodies; screening methods for
CC
     identifying agonists and antagonists of polynucleotides and polypeptides;
CC
     and methods and compositions for inhibiting or enhancing the production
     and function of the polypeptides. The polypeptides are useful for
CC
```

detecting, preventing, diagnosing, prognosticating, treating, and/or

immune/hematopoietic disorders (e.g. anemia, pancytopenia, leukopenia,

ameliorating diseases and disorders related to the proteins or

thrombocytopenia, or plasmacytomas); reproductive disorders (e.g. cryptorchism, prostatitis, inquinal hernia, varicocele, or leydig cell

tumors); musculoskeletal disorders (e.g. osteochondromas, benign chondromas, Paget's disease, or rheumatoid arthritis); cardiovascular

diseases (e.g. heart failure, congestive heart disease, arrhythmia,

polypeptides. Diseases and disorders include cancers;

CC

CC

CC

CC

CC

CC CC

CC

```
SCORE Search Results Details for Application 10573229 and Search Result 20090528_121050_us-10-573-229a-1.rng.
```

```
tachycardia, or hypertension); excretory disorders (e.g. bladder cancer,
     prostate cancer, benign prostatic hyperplasia, bladder disorders, or
CC
     renal disorders); neural/sensory disorders (e.g. brain cancer,
CC
     Alzheimer's disease, Creutzfeldt-Jakob disease, Parkinson's disease, or
     encephalomyelitis); respiratory diseases (e.g. lung cancer, allergic
CC
     reactions, cystic fibrosis, sarcoidosis, or pulmonary fibrosis);
CC
     endocrine disorders (e.g. diabetes, obesity, disorders related to
CC
     pituitary glands, hypothyroidism, hyperthyroidism, or goiter); digestive
CC
CC
     disorders (e.g. appendicitis, Crohn's disease, hepatitis, pancreatitis,
CC
     or ulcerative disease); and connective/epithelial disorders (e.g.
CC
     connective tissue metaplasia, mixed connective tissue disease, focal
CC
     epithelial hyperplasia, epithelial metaplasia, or graft vs. host
     disease). The present sequence is one such secreted protein
CC
CC
     polynucleotide sequence.
XX
```

11.4%; Score 104.8; DB 3; Length 737;

SQ Sequence 737 BP; 198 A; 174 C; 148 G; 217 T; 0 U; 0 Other;

```
Best Local Similarity 68.5%; Pred. No. 4.9e-21;
                                                   3;
 Matches 174; Conservative 0; Mismatches 77;
                                           Indels
                                                      Gaps
                                                             2:
        24 TGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGCACTTGGTGAGAAACCGATGCCT 83
Qv
           1 11111 11 1 1
                        Db
       398 TTTCATGAGGATACTCAAGCATTCCTATGGAGAGATCCACATGGTGAGAAACTGAAGCCT 457
        84 -CTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC 142
Qу
                   Db
       458 CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT 517
Qу
       143 TTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCACAGCCAACAAGACTGCAACC 202
             Db
       518 CTCTAGCCCTAGTCAGGCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC 577
       203 TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA 262
Qv
           111111 1111
Db
       578 TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA 635
       263 GAAATTGTGTAAGA 276
Qу
```

```
RESULT 14
AAC79717
```

Db

ID AAC79717 standard; cDNA; 797 BP.

636 GAAACTATGTGAGA 649

XX AC AAC79717;

Query Match

AC AAC/9/1/

DT 12-FEB-2001 (first entry)

```
XX
DE
     Human secreted protein gene 37 SEO ID NO:47.
XX
     Human; secreted protein; diagnosis; cytostatic; immunosuppressive;
KW
KW
     nootropic; neuroprotective; antiviral; antiallergic; hepatotropic;
     antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant;
KW
KW
     antibacterial; antifungal; antiparasitic; cardiant; gene therapy;
     food additive; preservative; chromosome identification; cancer;
KW
     immune disorder; cardiovascular disorder; neurological disease;
KW
KW
     wound healing; infectious disease; ss.
XX
OS
     Homo sapiens.
XX
PN
     WO200058339-A2.
XX
PD
     05-OCT-2000.
XX
PF
     22-MAR-2000: 2000WO-US007440.
XX
PR
     26-MAR-1999;
                    99US-0126503P.
PR
     17-DEC-1999:
                   99US-0172409P.
XX
PA
     (HUMA-) HUMAN GENOME SCI INC.
XX
PΙ
     Rosen CA, Ruben SM, Komatsoulis G;
XX
DR
     WPI: 2000-594637/56.
     P-PSDB: AAB44632.
DR
XX
PТ
     Fifty nucleic acid molecules encoding human secreted proteins, useful in
PΤ
     the prevention, treatment and diagnosis of cancer, immune disorders,
     cardiovascular disorders and neurological diseases.
PΤ
XX
PS
     Claim 1; Page 357-358; 410pp; English.
XX
     The polynucleotide sequences given in AAC79681 to AAC79730 encode the
CC
CC
     human secreted proteins given in AAB44596 to AAB44645. AAB44646 to
CC
     AAB44693 represent human secreted polypeptide sequences and proteins
CC
     homologous to them, which are given in the exemplification of the present
CC
     invention. Human secreted proteins have activities based on the tissues
CC
     and cells the genes are expressed in. Examples of activities include:
CC
     cvtostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
CC
     antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
CC
     vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; and
CC
     cardiant. The polynucleotides and polypeptides are useful for preventing,
     treating or ameliorating a medical condition in e.g. humans, mice,
CC
CC
     rabbits, goats, horses, cats, dogs, chickens or sheep. The polypeptides
     can also be used as a food additive or preservative to increase or
CC
     decrease storage capabilities. The polynucleotides are useful for
```

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SCORE Search Results Details for Application 10573229 and Search Result 20090528_121050_us-10-573-229a-1.rng.
```

chromosome identification. They are also useful as probes for diagnosing a disorder related to the female reproductive system, particularly breast CC and/or ovary cancer. They are also useful in the gene therapy of breast CC and ovarian cancer. The nucleic acids, protein, antibodies, agonists and CC antagonists from the present invention are useful in the diagnosis, treatment and prevention of: cancer; immune disorders; cardiovascular CC disorders; wound healing; neurological diseases; and infectious diseases. AAC79672 to AAC79680 and AAB44595 represent sequences used in the CC CC exemplification of the present invention XX SQ Sequence 797 BP; 269 A; 173 C; 149 G; 206 T; 0 U; 0 Other;

```
Query Match 11.4%; Score 104.8; DB 1; Length 797;
Best Local Similarity 68.5%; Pred. No. 5e-21;
Matches 174; Conservative 0; Mismatches 77; Indels 3; Gaps 2;
```

```
24 TGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGCACTTGGTGAGAAACCGATGCCT 83
Qу
          383 TTTCATGAGGATACTCAAGCATTCCTATGGAGAGATCCACATGGTGAGAAACTGAAGCCT 442
Db
       84 -CTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC 142
Qу
           Db
       443 CCTACCAAGAGCCAGCACCAACTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT 502
       143 TTGGAGCACCAGTCAAGCCCTTAGCTGGCTGCAGCCACAGCCAACAACAAGACTGCAACC 202
Qу
            Db
       503 CTCTAGCCCTAGTCAGGCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC 562
Qv
       203 TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA 262
          563 TCATGAGAGA--CTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA 620
Db
```

```
Qy 263 GAAATTGTGTAAGA 276
|||||||||||||
Db 621 GAAACTATGTGAGA 634
```

```
ADC20168
ID ADC20168 standard; DNA; 797 BP.
XX
```

```
XX
DT 18-DEC-2003 (first entry)
XX
```

RESULT 15

ADC20168:

AC

DE Human secreted protein coding sequence #107. XX

KW gene therapy; human; secreted protein; haemopoietic disorder; KW haematological disorder; anaemia; haemophilia; inflammatory disorder; KW

XX

SO

```
leukaemia: wound healing: epithelial cell proliferation disorder;
KW
     immune disorder; autoimmune disorder; asthmatic disorder;
KW
     cardiovascular disorder; atherosclerosis; myocarditis;
KW
     infectious disease; HIV; AIDS; endocrine disorder; diabetes;
KW
     qastrointestinal disorder; duodenal ulcer; qastroenteritis; qene; ds.
KW
XX
OS
     Homo sapiens.
XX
PN
     WO200292787-A2.
XX
PD
     21-NOV-2002.
XX
PF
     26-MAR-2002; 2002WO-US009257.
XX
PR
     27-MAR-2001; 2001US-0278650P.
PR
     12-SEP-2001; 2001US-00950082.
PR
     12-SEP-2001: 2001US-00950083.
XX
    (HUMA-) HUMAN GENOME SCI INC.
PA
XX
PΙ
     Rosen CA, Ruben SM;
XX
DR
     WPI: 2003-129287/12.
XX
PΤ
     New human secreted proteins and nucleic acid molecules, useful for
     preparing a diagnostic or pharmaceutical composition for diagnosing,
PΤ
PT
     preventing or treating hematopoietic or hematologic disorders, e.g.
PT
     anemia or hemophilia.
XX
PS
     Claim 1; SEO ID NO 117; 1512pp; English.
XX
CC
     The invention comprises the amino acid and coding sequences of human
CC
     secreted proteins. The DNA and protein sequences of the invention are
     useful for detecting, preventing, diagnosing, prognosticating, treating
CC
CC
     or ameliorating: haematopoietic or haematological disorders (e.g. anaemia
CC
     and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease
CC
     and Crohn's disease); neoplastic disease (e.g. cancer and leukaemia);
CC
     wound healing and disorders of epithelial cell proliferation; immune
     disorders (e.g. autoimmune disorders and asthmatic disorders):
CC
CC
     cardiovascular disorders (e.g. atherosclerosis and myocarditis);
CC
     infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);
CC
     and gastrointestinal disorders (e.g. duodenal ulcers and
CC
     gastroenteritis). The present DNA sequence encodes a human secreted
     protein of the invention.
```

inflammatory bowel disease; Crohn's disease; neoplastic disease; cancer;

Sequence 797 BP; 269 A; 173 C; 149 G; 206 T; 0 U; 0 Other;

Ouery Match 11.4%; Score 104.8; DB 1; Length 797;

Best Loc Matches		Similarity 68.5%; Pred. No. 5e-21; 4; Conservative 0; Mismatches 77; Indels 3; Gaps	2;
Qy	24	$\tt TGTCATGGGGGTGCATGAGCAGCCCAGTGGAGAGGTGCACTTGGTGAGAAACCGATGCCT$	83
Db	383	TTTCATGAGGATACTCAAGCATTCCTATGGAGAGATCCACATGGTGAGAAACTGAAGCCT	442
QУ	84	-CTGCCAACCACCTGCACTAACCTGCTGGGTCTGAGACTGAGCCACTTTGGAAGCTGATC	142
Db	443	CCTACCAAGAGCCACCACCTTGCCAGCTATGTGAATGAGCCATCTTAGAAGTGGGTT	502
Qy	143	TTGGAGCACCAGTCAAGCCCTTAGCTGCAGCCACAGCCAACAACAACAAGACTGCAACC	202
Db	503	CTCTAGCCCTAGTCAGGCCTTCATATGACTGCAGCCAGGGCTGATATTTTGACTACAACC	562
Qу	203	TCCTGGGGGATCCTGAGCCAGAATCCCCTGGCTAAATTGCTCCTTGATTCTTAACCCACA	262
Db	563	TCATGAGAGACTGAGCCACAACAACCTAGCTAAGAAGCTCCTGAATTCCCTACCAACA	620
Qу	263	GAAATTGTGTAAGA 276	
Db	621	GAAACTATGTGAGA 634	

Search completed: May 31, 2009, 21:51:40 Job time : 342 secs